

**Sample ASTM Standard Specifications for;
Biodiesel (B100), Diesel, & Heating Oil**

ASTM D 6751-07a Biodiesel Blend Stock Specification (B100)*

Property	ASTM Method	Limits	Units
Flash Point	D93	130.0 min.	°C
Water and Sediment	D2709	0.050 max	% vol.
Kinematic Viscosity 40°C	D445 D874	1.9 - 6.0	mm ² /sec.
Sulfated Ash	D5453	0.020 max.	% mass
Sulfur (S 15 Grade)	D5453	0.0015 max.	ppm
Sulfur (S 500 Grade)	D130	0.05 max.	ppm
Copper Strip Corrosion	D613	No. 3 max.	
Cetane	D2500	47 min.	°C
Cloud Point	D4530*	Report Customer	% mass
Carbon Residue	D664	0.050 max.	mg KOH/gm
Acid Number	D6584	0.80 max.	% mass
Free Glycerin	D6584	0.020 max.	% mass
Total Glycerin	D4951	0.240 max.	% mass
Phosphorus Content		0.001 max.	
Distillation Temperature, Atmospheric Equivalent Temperature, 90% Recovered	D1160	360 max.	°C

*Carbon Residue should be run on a 100% sample

****This standard specification for biodiesel was approved on February 1, 2007.***

ASTM D975-Diesel Fuel Specification

Property	ASTM Method	Limits	Units
Flash Point	D93	52 min.	°C
Water and Sediment	D2709	0.050 max	% vol.
Kinematic Viscosity, 40°C	D445	1.9 - 4.1	mm ² /sec.
Ash	D482	0.01 max.	% mass
Sulfur (Grade No.2)	D129	0.50 max.	% mass
Sulfur (Grade No. 2-Low Sulfur)	D2622	0.05 max.	% mass
Copper Strip Corrosion	D130	No. 3 max.	
Cetane	D613	40 min.	°C
Pour Point	D97	-----	°C
Cloud Point or LTFT/CFPP	D2500 D4539/D6371	Depends on location Depends on location	% mass
Density, 15°C	D1298	-----	kg/m ³
Ramsbottom Carbon Residue	D524	0.35 max.	mg KOH/gm
Cetane Index or Aromaticity	D976 D1319	40 min. 35 max.	% vol.
Distillation Temperature, 90% Recovered	D86	282-338	°C
Lubricity, HFRR @60°C	D6079	520 max	microns

There is no requirement for low temperature operability in ASTM D975, only guidance.

ASTM D396-Heating Oil Specification

Property	ASTM Method	Limits	Units
Flash Point	D93	38 min.	°C
Water and Sediment	D2709	0.050 max	% vol.
Kinematic Viscosity, 40°C	D445	1.9 - 3.4	mm ² /sec.
Ash	D482	-----	% mass
Sulfur (Grade No.2)	D129	0.50 max.	% mass
Sulfur (Grade No. 2 Low Sulfur)	D2622	0.05 max.	% mass
Copper Strip Corrosion	D130	No. 3 max.	
Cetane	D613	-----	°C
Pour Point	D97	-6	°C
Cloud Point or LTFT/CFPP	D2500 D4539/D6371	----- -----	% mass
Density, 15°C	D1298	876	kg/m ³
Ramsbottom Carbon Residue	D524	0.35 max.	mg KOH/gm
Cetane Index or Aromaticity	D976 D1319	----- -----	% vol.
Distillation Temperature, 90% Recovered	D86	282-338	°C

To obtain a copy of the ASTM D 6751 standard or any other ASTM standard referred to in this document:

**Web site: www.astm.org
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Phone: 610-832-9585**